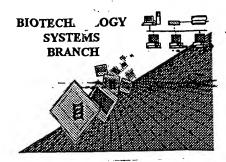
1) Dibrino

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/267, 7/9/7

Source: 1644

Date Processed by STIC: 9-28-00

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR FURTHER INFORMATION, PLEASE TELEPHONE MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

1644

Does Not Comply

RAW SEQUENCE LISTING DATE: 09/28/2000 PATENT APPLICATION: US/09/267,719A TIME: 11:09:13

Input Set : A:\Hsll0pl.app

```
Corrected Diskette Needed
 3 <110> APPLICANT: Burks Jr., A. Wesley
         Helm, Ricki M.
          Cockrell, Gael
          Bannon, Gary A.
          Stanley, J. Steven
          Shin, David S.
          Compadre, Cesar M.
10
          Huang, Shau-Ku
11
          Maleki, Soheila J.
         Kopper, Randall A.
14 <120> TITLE OF INVENTION: Tertiary Structure of Peanut Allergen ARA H 1
16 <130> FILE REFERENCE: HS 110
18 <140> CURRENT APPLICATION NUMBER: 09/267,719A
19 <141> CURRENT FILING DATE: 1999-03-11
21 <150> PRIOR APPLICATION NUMBER: 60/077,763
22 <151> PRIOR FILING DATE: 1998-03-13
24 <160> NUMBER OF SEQ ID NOS: 13
26 <170> SOFTWARE: PatentIn Ver. 2.1
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 626
30 <212> TYPE: PRT
31 <213> ORGANISM: Arachis hypogaea
33 <400> SEQUENCE: 1
34 Met Arg Gly Arg Val Ser Pro Leu Met Leu Leu Gly Ile Leu Val
35 1 10 15
37 Leu Ala Ser Val Ser Ala Thr His Ala Lys Ser Ser Pro Tyr Gln Lys
38 20 25 30
40 Lys Thr Glu Asn Pro Cys Ala Gln Arg Cys Leu Gln Ser Cys Gln Gln 41 \phantom{+}35\phantom{+}40\phantom{+}45\phantom{+}
43 Glu Pro Asp Asp Leu Lys Gln Lys Ala Cys Glu Ser Arg Cys Thr Lys 44 50 55 60
46 Leu Glu Tyr Asp Pro Arg Leu Val Tyr Asp Pro Arg Gly His Thr Gly 47 65 70 75 80
49 Thr Thr Asn Gln Arg Ser Pro Pro Gly Glu Arg Thr Arg Gly Arg Gln 50 85 90 95
52 Pro Gly Asp Tyr Asp Asp Asp Arg Arg Gln Pro Arg Arg Glu Glu Gly 53 100 105 110
55 Gly Arg Trp Gly Pro Ala Gly Pro Arg Glu Arg Glu Arg Glu Glu Asp
56 115 120 125
58 Trp Arg Gln Pro Arg Glu Asp Trp Arg Arg Pro Ser His Gln Gln Pro
59 130 135 140
61 Arg Lys Ile Arg Pro Glu Gly Arg Glu Gly Glu Gln Glu Trp Gly Thr
62 145 150 160
64 Pro Gly Ser His Val Arg Glu Glu Thr Ser Arg Asn Asn Pro Phe Tyr
                  165
                                        170
67 Phe Pro Ser Arg Arg Phe Ser Thr Arg Tyr Gly Asn Gln Asn Gly Arg
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/267,719A

DATE: 09/28/2000 TIME: 11:09:14

Input Set : A:\Hsl10p1.app
Output Set: N:\CRF3\09282000\I267719A.raw

70 Ile Arg Val Leu Gln Arg Phe Asp Gln Arg Ser Arg Gln Phe Gln Asn 195 200 73 Leu Gln Asn His Arg Ile Val Gln Ile Glu Ala Lys Pro Asn Thr Leu 74 210 215 220 76 Val Leu Pro Lys His Ala Asp Ala Asp Asn Ile Leu Val Ile Gln Gln 77 225 230 240 79 Gly Gln Ala Thr Val Thr Val Ala Asn Gly Asn Asn Arg Lys Ser Phe 80 245 250 255 82 Asn Leu Asp Glu Gly His Ala Leu Arg Ile Pro Ser Gly Phe Ile Ser 83 260 265 270 85 Tyr Ile Leu Asn Arg His Asp Asn Gln Asn Leu Arg Val Ala Lys Ile 86 275 280 285 88 Ser Met Pro Val Asn Thr Pro Gly Gln Phe Glu Asp Phe Phe Pro Ala 89 290 295 300 91 Ser Ser Arg Asp Gln Ser Ser Tyr Leu Gln Gly Phe Ser Arg Asn Thr 92 305 310 315 320 94 Leu Glu Ala Ala Phe Asn Ala Glu Phe Asn Glu Ile Arg Arg Val Leu 95 325 330 335 97 Leu Glu Glu Asn Ala Gly Gly Glu Glu Glu Glu Arg Gly Gln Arg Arg 98 340 345 350 340 345 103 Ser Lys Glu His Val Glu Glu Leu Thr Lys His Ala Lys Ser Val Ser 104 370 375 380 106 Lys Lys Gly Ser Glu Glu Glu Gly Asp Ile Thr Asn Pro Ile Asn Leu 107 385 390 395 400 109 Arg Glu Gly Glu Pro Asp Leu Ser Asn Asn Phe Gly Lys Leu Phe Glu 110 405 410 415 112 Val Lys Pro Asp Lys Lys Asn Pro Gln Leu Gln Asp Leu Asp Met Met 113 \$420\$ \$425\$ \$430115 Leu Thr Cys Val Glu Ile Lys Glu Gly Ala Leu Met Leu Pro His Phe 116 $_{\odot}$ 435 440 445 118 Asn Ser Lys Ala Met Val Ile Val Val Val Asn Lys Gly Thr Gly Asn 119 450450 121 Leu Glu Leu Val Ala Val Arg Lys Glu Gln Gln Gln Arg Gly Arg Arg 122 465 470 475 480 124 Glu Glu Glu Glu Asp Glu Asp Glu Glu Glu Glu Gly Ser Asn Arg Glu 485 490 495 127 Val Arg Arg Tyr Thr Ala Arg Leu Lys Glu Gly Asp Val Phe Ile Met 128 500 505 510 128 130 Pro Ala Ala His Pro Val Ala Ile Asn Ala Ser Ser Glu Leu His Leu 131 515 520 525 133 Leu Gly Phe Gly Ile Asn Ala Glu Asn Asn His Arg Ile Phe Leu Ala 134 530535540 136 Gly Asp Lys Asp Asn Val Ile Asp Gln Ile Glu Lys Gln Ala Lys Asp 137 545 550555555 139 Leu Ala Phe Pro Gly Ser Gly Glu Gln Val Glu Lys Leu Ile Lys Asn 140 565 570 575 142 Gln Lys Glu Ser His Phe Val Ser Ala Arg Pro Gln Ser Gln Ser Gln RAW SEQUENCE LISTING

DATE: 09/28/2000 TIME: 11:09:14

PATENT APPLICATION: US/09/267,719A

Input Set : A:\Hsl10pl.app

Output Set: N:\CRF3\09282000\1267719A.raw

580 585 145 Ser Pro Ser Ser Pro Glu Lys Glu Ser Pro Glu Lys Glu Asp Gln Glu 146 595 600 605 148 Glu Glu Asn Gln Gly Gly Lys Gly Pro Leu Leu Ser Ile Leu Lys Ala 149 610 615 620 151 Phe Asn 152 625 155 <210> SEQ ID NO: 2 156 <211> LENGTH: 371 157 <212> TYPE: PRT 158 <213> ORGANISM: Phaseolus vulgaris 160 <400> SEQUENCE: 2 161 Asp Asn Pro Phe Tyr Phe Asn Ser Asp Asn Ser Trp Asn Thr Leu Phe 162 1 10 164 Lys Asn Gln Tyr Gly His Ile Arg Val Leu Gln Arg Phe Asp Gln Gln 165 20 25 30167 Ser Lys Arg Leu Gln Asn Leu Glu Asp Tyr Arg Leu Val Glu Phe Arg 168 35 40 45170 Ser Lys Pro Glu Thr Leu Leu Leu Pro Gln Gln Ala Asp Ala Glu Leu 171 50 55 60 173 Leu Leu Val Val Arg Ser Gly Ser Ala Ile Leu Val Leu Val Lys Pro 174 65 70 75 80 176 Asp Asp Arg Glu Tyr Phe Phe Leu Thr Ser Asp Asn Pro Ile Phe 177 90 179 Ser Asp His Gln Lys Ile Pro Ala Gly Thr Ile Phe Tyr Leu Val Asn 180 100 105 110 182 Pro Asp Pro Lys Glu Asp Leu Arg Ile Ile Gln Leu Ala Met Pro Val 183 $$ 115 $$ 120 $$ 125 185 Asn Asn Pro Gln Ile His Glu Phe Phe Leu Ser Ser Thr Glu Ala Gln 186 130 135 140 188 Gln Ser Tyr Leu Gln Glu Phe Ser Lys His Ile Leu Glu Ala Ser Phe 189 145 150 191 Asn Ser Lys Phe Glu Glu Ile Asn Arg Val Leu Phe Glu Glu Glu Gly 192 165 170 175 194 Gln Glu Gly Val Ile Val Asn Ile Asp Ser Glu Gln Ile Lys Glu 195 180 185 190 197 Leu Ser Lys His Ala Lys Ser Ser Ser Arg Lys Ser Leu Ser Lys Gln 198 $$ 195 $$ 200 $$ 205 200 Asp Asn Thr Ile Gly Asn Glu Phe Gly Asn Leu Thr Glu Arg Thr Asp 201 210 215 220 203 Asn Ser Leu Asn Val Leu Ile Ser Ser Ile Glu Met Glu Glu Gly Ala 204 225 $$ 230 $$ 235 $$ 240 206 Leu Phe Val Pro His Tyr Tyr Ser Lys Ala Ile Val Ile Leu Val Val 207 245250250 209 Asn Glu Gly Glu Ala His Val Glu Leu Val Gly Pro Lys Gly Asn Lys 210 265 270 212 Glu Thr Leu Glu Tyr Glu Ser Tyr Arg Ala Glu Leu Ser Lys Asp Asp 213 275 280 280 285 215 Val Phe Val Ile Pro Ala Ala Tyr Pro Val Ala Ile Lys Ala Thr Ser

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/267,719A

DATE: 09/28/2000 TIME: 11:09:14

Input Set : A:\HsllOpl.app

```
290
216
218 Asn Val Asn Phe Thr Gly Phe Gly Ile Asn Ala Asn Asn Asn Asn Arg
                         310
                                              315
219 305
221 Asn Leu Leu Ala Gly Lys Thr Asp Asn Val Ile Ser Ser Ile Gly Arg
222
                    325
                                         330
                                                               335
224 Ala Leu Asp Gly Lys Asp Val Leu Gly Leu Thr Phe Ser Gly Ser Gly 225 340 \qquad \qquad 345 \qquad \qquad 350
227 Asp Glu Val Met Lys Leu Ile Asn Lys Gln Ser Gly Ser Tyr Phe Val
228 355 360 365
230 Asp Ala His
231
      370
234 <210> SEQ ID NO: 3
235 <211> LENGTH: 510
236 <212> TYPE: PRT
237 <213> ORGANISM: Arachis hypogaea
239 <400> SEQUENCE: 3
240 Ile Ser Phe Arg Gln Gln Pro Glu Glu Asn Ala Cys Gln Phe Ġln Arg
241 1
                       5
                                           10
243 Leu Asn Ala Gln Arg Pro Asp Asn Arg Ile Glu Ser Glu Gly Gly Tyr
244 20 25 30
246 Ile Glu Thr Trp Asn Pro Asn Asn Gln Glu Phe Glu Cys Ala Gly Val
247. 35
                               40
249 Ala Leu Ser Arg Leu Val Leu Arg Arg Asn Ala Leu Arg Arg Pro Phe
    50
                             55
                                                   60
252 Tyr Ser Asn Ala Pro Gln Glu Ile Phe Ile Gln Gln Gly Arg Gly Tyr 253 65 70 75 80
255 Phe Gly Leu Ile Phe Pro Gly Cys Pro Arg His Tyr Glu Glu Pro His
                   85
                                          90
258 Thr Gln Gly Arg Arg Ser Gln Ser Gln Arg Pro Pro Arg Arg Leu Gln
                100
                                    105
261 Gly Glu Asp Gln Ser Gln Gln Gln Arg Asp Ser His Gln Lys Val His
           115
                                120
264 Arg Phe Asp Glu Gly Asp Leu Ile Ala Val Pro Thr Gly Val Ala Phe
       130
                             135
267 Trp Leu Tyr Asn Asp His Asp Thr Asp Val Val Ala Val Ser Leu Thr 268 145 150 155 160
270 Asp Thr Asn Asn Asn Asp Asn Gln Leu Asp Gln Phe Pro Arg Arg Phe 271 . 165 . 170 . 175
273 Asn Leu Ala Gly Asn Thr Glu Glu Phe Leu Arg Tyr Gln Gln Gln 274 180 185 190
276 Ser Arg Gln Ser Arg Arg Arg Ser Leu Pro Tyr Ser Pro Tyr Ser Pro
                                                      205
277
      195
                                200
279 Gln Ser Gln Pro Arg Gln Glu Glu Arg Glu Phe Ser Pro Arg Gly Gln
      210
                            215
                                                 220
282 His Ser Arg Arg Glu Arg Ala Gly Gln Glu Glu Glu Asn Glu Gly Gly 283 225 230 235 240
                       230
                                            235
285 Asn Ile Phe Ser Gly Phe Thr Pro Glu Phe Leu Glu Gln Ala Phe Gln 286 245 250 255
288 Val Asp Asp Arg Gln Ile Val Gln Asn Leu Arg Gly Glu Thr Glu Ser
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RAW SEQUENCE LISTING DATE: 09/28/2000 PATENT APPLICATION: US/09/267,719A TIME: 11:09:14

Input Set : A:\Hs110pl.app

```
260
                                       265
291 Glu Glu Glu Gly Ala Ile Val Thr Val Arg Gly Gly Leu Arg Ile Leu
                                  280
292
           275
                                                         285
294 Ser Pro Asp Arg Lys Arg Arg Ala Asp Glu Glu Glu Glu Tyr Asp Glu
     290
                             295
                                                  300
297 Asp Glu Tyr Glu Tyr Asp Glu Glu Asp Arg Arg Gly Arg Gly Ser 298 305 310 315 320
                       310
                                               315
300 Arg Gly Arg Gly Asn Gly Ile Glu Glu Thr Ile Cys Thr Ala Ser Ala 301 325 330 335
                    325
                                         330
303 Lys Lys Asn Ile Gly Arg Asn Arg Ser Pro Asp Ile Tyr Asn Pro Gln 304 340 345 350
306 Ala Gly Ser Leu Lys Thr Ala Asn Asp Leu Asn Leu Leu Ile Leu Arg
307 355 360 365
309 Trp Leu Gly Leu Ser Ala Glu Tyr Gly Asn Leu Tyr Arg Asn Ala Leu 310 \phantom{000} 370 \phantom{000} 375 \phantom{000} 380
310
312 Phe Val Ala His Tyr Asn Thr Asn Ala His Ser Ile Ile Tyr Arg Leu 313 385 \phantom{\bigg|} 390 \phantom{\bigg|} 395 \phantom{\bigg|} 400
315 Arg Gly Arg Ala His Val Gln Val Val Asp Ser Asn Gly Asn Arg Val 316 405 410 415
318 Tyr Asp Glu Glu Leu Gln Glu Gly His Val Leu Val Val Pro Gln Asn 319 420 425 430
                                      425
321 Phe Ala Val Ala Gly Lys Ser Gln Ser Glu Asn Phe Glu Tyr Val Ala
322 435 440 445
                                                      445
324 Phe Lys Thr Asp Ser Arg Pro Ser Ile Ala Asn Leu Ala Gly Glu Asn 325 450 455 460
327 Ser Val Ile Asp Asn Leu Pro Glu Glu Val Val Ala Asn Ser Tyr Gly
                      470
328 465
                                             475
330 Leu Gln Arg Glu Gln Ala Arg Gln Leu Lys Asn Asn Asn Pro Phe Lys
          485
                                   490
333 Phe Phe Val Pro Pro Ser Gln Gln Ser Pro Arg Ala Val Ala 334 500 505 510
337 <210> SEQ ID NO: 4
338 <211> LENGTH: 473
339 <212> TYPE: PRT
340 <213> ORGANISM: Glycine max
342 <400> SEQUENCE: 4
343 Met Ala Ser Lys Val Val Ser Val Leu Val Ile Ala Met Met Leu Phe
                      5
344 1
                                            10
346 Ala Met Asn Cys Asn Cys Thr Ser Val Gly His Met Pro Ser Thr Lys
           20
                                        25
                                                              30
349 Glu Glu Gly His Asp Phe Gln Glu Ser Lys Ala Lys Thr Thr Gln Thr
    35
                                   40
                                                         45
352 Ala Asn Lys Ala Met Glu Thr Gly Lys Glu Gly Gln Glu Ala Ala Glu
353 50
                            55
                                                     60
355 Ser Trp Thr Glu Trp Ala Lys Glu Lys Leu Ser Glu Gly Leu Gly Phe 356 65 70 75 80
356 65
                        70
358 Lys His Asp Gln Glu Ser Lys Glu Ser Thr Thr Asn Lys Val Ser Asp 359 90 95
361 Tyr Ala Thr Asp Thr Ala Gln Lys Ser Lys Asp Tyr Ala Thr Asp Thr
```

<210)> 1()																			,
<210> 10 <211> 185																					
<211> 185 <212> PRT <213> Arachis hypogaea features to explain "Xaa" at position																					
			is hy	poqa	ea	_		1	<i>!</i>	/			,	۲,						•	
			_			>	> 7	t ear	1000	ۍج	70	@ X	ola.	in	Xaa	"	a 7	/	000	/	·/·
<400> 10																					
Gly 1	Ile	Glu	Glu	Thr 5	Ile	Cys	Thr	Ala	Ser 10	Ala	Lys	Lys	Asn	Ile 15	Gly	/	00		•		
Arg	Asn	Arg	Ser 20	Pro	Asp	Ile	Tyr	Asn 25	Pro	Gln	Ala	Gly	Ser 30	Leu	Lys						
Thr	Ala	Asn 35	Asp	Leu	Asn	Leu	Leu 40	Ile	Leu	Arg	Trp	Leu 45	Gly	Leu	Ser						
Ala	Glu 50	Tyr	Gly	Asn	Leu	Tyr 55	Arg	Asn	Ala	Leu	Phe 60	Val	Ala	His	Tyr			•			
Asn 65	Thr	Asn	Ala	His	Ser 70	Ile	Ile	Tyr	Arg	Leu 75	Arg	Gly	Arg	Ala	His 80					٠	
Val	Gln	Val	Val	Asp 85	Ser	Asn	Gly	Asn	Arg 90	Val	Tyr	Asp	Glu	Glu 95	Leu						
Gln	Glu	Phe	Xaa 100	Val	Leu	Val	Val	Pro 105	Gln	Asn	Phẹ	Ala	Val 110	Ala	Gly						
Lys	Ser	Gln 115	Ser	Glu	Asn	Phe	Glu 120	Tyr	Val	Ala	Phe	Lys 125	Thr	Asp	Ser						
Arg	Pro 130	Ser	Ile	Ala	Asn	Leu 135	Ala	Gly	Glu	Asn	Ser 140	Val	Ile	Asp	Asn						
Leu 145	Pro	Glu	Glu	Val	Val 150	Ala	Asn	Ser	Tyr	Gly 155	Leu	Gln	Arg	Glu	Gln 160						
Ala	Arg	Gln	Leu	Lys 165	Asn	Asn	Asn	Pro	Phe 170	Lys	Phe	Phe	Val	Pro 175	Pro						

Ser Gln Gln Ser Pro Arg Ala Val Ala

VERIFICATION SUMMARY DATE: 09/28/2000 PATENT APPLICATION: US/09/267,719A TIME: 11:09:15

Input Set : A:\Hsl10pl.app

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L:476 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5 L:476 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5 L:476 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:5 L:523 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6 L:523 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6 L:523 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:6 L:526 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6 L:526 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6 L:526 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6 L:595 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:7 L:595 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7 L:595 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7 L:598 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7 L:598 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7 L:598 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:7 M:340 Repeated in SeqNo=7 L:826 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:7 L:826 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:10 L:826 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:10 L:826 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:10 L:826 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:10 L:826 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:10 L:826 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:10 L:826 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:10 L:826 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:10 L:826 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:10 L:826 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:10 L:826 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:10 L:826 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID
```